

1. A method for calibrating a biometric authentication device over time comprising the steps of:

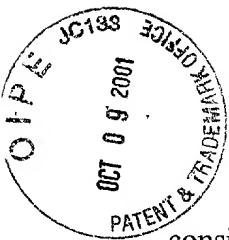
obtaining an authenticating biometric value from an actual biometric measurement;
weighting the authenticating biometric value, and
5 integrating the weighted authenticating biometric value into an authenticating template.

2. The method of claim 1 wherein the step of obtaining an authenticated biometric value comprises determining that a measured biometric value falls within a predetermined range of biometric values.

3. The method of claim 2 wherein the integration of the weighted value is accomplished by averaging the weighted value into the authenticating range of values.

4. The method of claim 3 wherein the step of averaging the weighted value further comprises multiplying the authenticating measured value by a multiplier.

5. The method of claim 1 wherein the step of weighting the authenticating biometric value allows the biometric value to be adaptably weighted.



6. The method of claim 1 wherein biometric value is adaptably weighted based upon consistent differences in authenticated measured biometric values.

7. The method of claim 1 wherein biometric value is adaptably weighted based upon trends in measured authenticating biometric values.

8. The method of claim 1 wherein biometric value is adaptably weighted based on the frequency of use of the biometric authentication device.

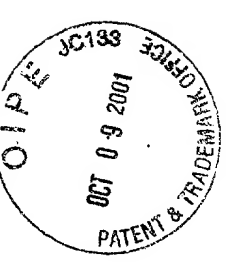
9. The method of claim 1 wherein biometric value is adaptably weighted based on the number of uses of the biometric authentication device.

10. The method of claim 1 wherein the authenticated biometric values are obtained by measuring histological biometric markers.

11. The method of claim 1 wherein the authenticating biometric values are obtained measuring a physiological biometric marker.

12. The method of claim 1 wherein the authenticated biometric values are weighted to accommodate for known changes in a biometric marker.

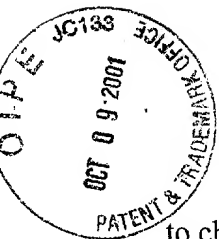
13. The method of claim 1 wherein the biometric values are univariate values.



14. The method of claim 1 wherein the biometric values are multivariate values.

15. The method of claim 1 wherein the biometric marker being measured is an internal biometric marker.

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16. A device employing a biometric access system, said access system being adaptable to changes in a user's biometric over time, said device adapting to said changes by using the steps of:

obtaining an authenticating biometric value from an actual biometric measurement;

weighting the authenticating biometric value,

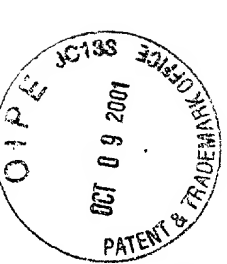
integrating the weighted authenticating biometric value into an authenticating template.

17. The method of claim 16 wherein the step of obtaining an authenticated biometric value comprises determining that a measured biometric value falls within a predetermined range of biometric values.

18. The method of claim 17 wherein the integration of the weighted value is accomplished by averaging the weighted value into the authenticating range of values.

19. The method of claim 18 wherein the step of averaging the weighted value further comprises multiplying the authenticating measured value by a multiplier.

20. The method of claim 16 wherein the biometric marker being measured is an internal biometric marker.



21. The method of claim 16 wherein the step of weighting the authenticating biometric value allows the biometric value to be adaptably weighted.

22. The method of claim 16 wherein biometric value is adaptably weighted based upon
5 consistent differences in authenticated measured biometric values.

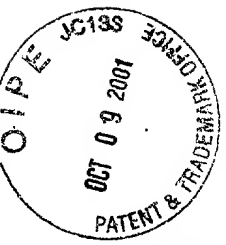
23. The method of claim 16 wherein biometric value is adaptably weighted based upon trends in measured authenticating biometric values.

10 24. The method of claim 16 wherein biometric value is adaptably weighted based on the frequency of use of the biometric authentication device.

15 25. The method of claim 16 wherein biometric value is adaptably weighted based on the number of uses of the biometric authentication device.

26. The method of claim 16 wherein the authenticated biometric values are obtained by measuring histological biometric markers.

20 27. The method of claim 16 wherein the authenticating biometric values are obtained measuring a physiological biometric marker.



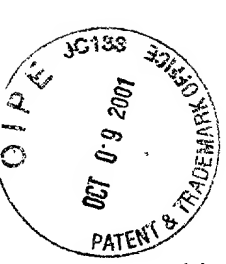
28. The method of claim 16 wherein the authenticated biometric values are weighted to accommodate for known changes in a biometric marker.

29. The method of claim 16 wherein the biometric values are univariate values.

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30. The method of claim 16 wherein the biometric values are multivariate values.

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31. A computer readable medium containing instructions for controlling calibration of
a biometric marker for use in a biometric authentication device, by:

obtaining an authenticating biometric value from an actual biometric measurement;

weighting the authenticating biometric value, and

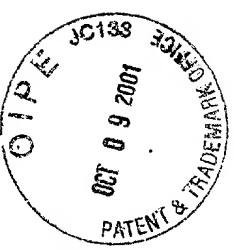
integrating the weighted authenticating biometric value into an authenticating template.

32. The method of claim 31 wherein the step of obtaining an authenticated biometric
value comprises determining that a measured biometric value falls within a predetermined range of
biometric values.

33. The method of claim 32 wherein the integration of the weighted value is
accomplished by averaging the weighted value into the authenticating range of values.

34. The method of claim 33 wherein the step of averaging the weighted value further
comprises multiplying the authenticating measured value by a multiplier.

35. The method of claim 31 wherein the biometric marker being measured is an internal
biometric marker.



36. The method of claim 31 wherein the step of weighting the authenticating biometric value allows the biometric value to be adaptably weighted.

37. The method of claim 31 wherein biometric value is adaptably weighted based upon
5 consistent differences in authenticated measured biometric values.

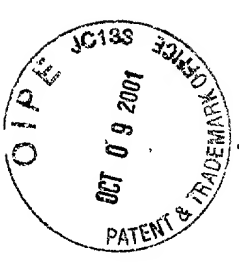
38. The method of claim 31 wherein biometric value is adaptably weighted based upon trends in measured authenticating biometric values.

10 39. The method of claim 31 wherein biometric value is adaptably weighted based on the frequency of use of the biometric authentication device.

40. The method of claim 31 wherein biometric value is adaptably weighted based on the number of uses of the biometric authentication device.

15 41. The method of claim 31 wherein the authenticated biometric values are obtained by measuring histological biometric markers.

42. The method of claim 31 wherein the authenticating biometric values are obtained
20 measuring a physiological biometric marker.



43. The method of claim 31 wherein the authenticated biometric values are weighted to accommodate for known changes in a biometric marker.

44. The method of claim 31 wherein the biometric values are univariate values.

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45. The method of claim 31 wherein the biometric values are multivariate values.

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